

CUPS-STP-1.1

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1 Scope

1.1 Identification

This software test plan provides detailed tests that are used to evaluate the stability of the Common UNIX Printing System ("CUPS") Version 1.1.

1.2 System Overview

The Common UNIX Printing System provides a portable printing layer for UNIX® operating systems. It has been developed by <u>Easy Software Products</u> to promote a standard printing solution for all UNIX vendors and users. CUPS provides the System V and Berkeley command—line interfaces.

CUPS uses the Internet Printing Protocol (IETF–IPP) as the basis for managing print jobs and queues. The Line Printer Daemon (LPD, RFC1179), Server Message Block (SMB), and AppSocket protocols are also supported with reduced functionality.

CUPS adds network printer browsing and PostScript Printer Description ("PPD")—based printing options to support real world applications under UNIX.

CUPS also includes a customized version of GNU GhostScript (currently based off GNU GhostScript 5.50) and an image file RIP that is used to support non–PostScript printers.

1.3 Document Overview

This software test plan is organized into the following sections:

- 1 − Scope
- 2 References
- 3 Local Tests
- 4 Remote Tests
- A Glossary

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2 1 Scope

2 References

2.1 CUPS Documentation

The following CUPS documentation is referenced by this document:

- CUPS-CMP-1.1: CUPS Configuration Management Plan
- CUPS-IDD-1.1: CUPS System Interface Design Description
- CUPS-SAM-1.1.x: CUPS Software Administrators Manual
- CUPS-SDD-1.1: CUPS Software Design Description
- CUPS-SPM-1.1: CUPS Software Programming Manual
- CUPS-SSR-1.1: CUPS Software Security Report
- CUPS-STP-1.1: CUPS Software Test Plan
- CUPS-SUM-1.1.x: CUPS Software Users Manual
- CUPS-SVD-1.1.x: CUPS Software Version Description

2.2 Other Documents

The following non-CUPS documents are referenced by this document:

- Adobe PostScript Printer Description File Format Specification, Version 4.3.
- Adobe PostScript Language Reference, Third Edition.
- IPP: Job and Printer Set Operations
- IPP/1.1: Encoding and Transport
- IPP/1.1: Implementers Guide
- IPP/1.1: Model and Semantics
- RFC 1179, Line Printer Daemon Protocol
- RFC 2567, Design Goals for an Internet Printing Protocol
- RFC 2568, Rationale for the Structure of the Model and Protocol for the Internet Printing Protocol
- RFC 2569, Mapping between LPD and IPP Protocols
- RFC 2616, Hypertext Transfer Protocol HTTP/1.1
- RFC 2617, HTTP Authentication: Basic and Digest Access Authentication

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A Glossary

A.1 Terms

C
A computer language.

parallel
Sending or receiving data more than 1 bit at a time.

pipe
A one—way communications channel between two programs.

serial
Sending or receiving data 1 bit at a time.

A two-way network communications channel.

A.2 Acronyms

socket

ASCII American Standard Code for Information Interchange **CUPS** Common UNIX Printing System ESC/P **EPSON Standard Code for Printers** FTPFile Transfer Protocol HP-GLHewlett-Packard Graphics Language HP-PCLHewlett-Packard Printer Control Language HP-PJLHewlett-Packard Printer Job Language *IETF* Internet Engineering Task Force IPP**Internet Printing Protocol** ISO **International Standards Organization** LPDLine Printer Daemon **MIME** Multimedia Internet Mail Exchange PCLPage Control Language PPDPostScript Printer Description SMB

A Glossary

Server Message Block

TFTP

Trivial File Transfer Protocol

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